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Application No.: 10/826,599

Docket No.: MWS-081

AMENDMENTS TO THE CLAIMS

1. (currently amended) In a graphical modeling environment, a method comprising ~~the steps of:~~
receiving a user request to define a property for a component of a ~~graphical~~ simulatable
block diagram model;
generating a preview of code representative of the component of the block diagram
model prior to generation of code for the ~~graphical~~ block diagram model; and
displaying the preview of the code on a graphical user interface.
2. (currently amended) The method of claim 1, wherein ~~the step of defining a setting the~~
receiving the user request to define the property for a the component comprises entering
receiving a parameter in a via the graphical user interface.
3. (currently amended) The method of claim 2, wherein the ~~generated code~~ is displayed on the
same graphical user interface used to enter that receives the parameter.
4. (currently amended) The method of claim 1, wherein ~~generated the code~~ comprises a subset of
corresponding code for the component.
5. (currently amended) The method of claim 4, wherein the subset of code corresponds to the
property setting defined by the user.
6. (currently amended) The method of claim 1, wherein ~~the step of generating the preview of the~~
code comprises:
~~a predictor mechanism~~ generating an estimation of the code using a predictor
mechanism.
7. (currently amended) The method of claim 1, wherein ~~the step of generating the preview of the~~
code comprises:
~~an execution engine~~ generating code corresponding to the component using an execution
engine.

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8. (currently amended) The method of claim 1, wherein the ~~generated code~~ comprises a symbolic, non-literal representation of ~~code~~ corresponding to the component.
9. (currently amended) The method of claim 1, wherein the ~~generated code~~ comprises pseudo-code.
10. (currently amended) The method of claim 1, wherein the ~~steps of generating and the displaying~~ a the preview of the code execute in real-time after receiving the user request.
11. (currently amended) The method of claim 1, further comprising ~~the step of altering the property for the component after the step of the displaying of the preview of the generated code.~~
12. (currently amended) The method of claim 11, further comprising: ~~the steps of~~ generating code ~~representative of~~ representing the altered property; and displaying the code ~~representative of~~ representing the altered property on the graphical user interface.
13. (currently amended) The method of claim 1, further comprising ~~the step of altering a second property in the graphical block diagram model after the step of displaying of the preview of the generated code.~~
14. (currently amended) The method of claim ~~11~~ 12, further comprising: ~~the steps of~~ generating code ~~representative of~~ representing the altered second property; and displaying the code ~~representative of~~ representing the altered property on the graphical user interface.
15. (original) The method of claim 1, wherein the component comprises one of a block, a signal, a subsystem and a custom storage class.
16. (currently amended) The method of claim 1, further comprising ~~wherein the user defines~~

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receiving the property via a dialog box associated with the component~~the property by entering in the form of a parameter for the component in a dialog box associated with the component.~~

17. (original) The method of claim 16, wherein the dialog box includes a code preview field for displaying the code.

18. (currently amended) The method of claim 1, wherein the steps of generating of the preview of the code representative of the component of the block diagram model and the displaying of the preview of the generated code on a the graphical user interface are executed automatically in response to the user defining the property.

19. (currently amended) In a graphical modeling environment, a method comprising ~~the steps of:~~ automatically updating a preview of code representative of a setting of a component of a graphical simulatable block diagram model in response to ~~the a~~ user altering the setting; and displaying the updated preview of the code on a graphical user interface.

20. (currently amended) The method of claim 19, further comprising: wherein the user alters receiving the altering of the setting using via the graphical user interface.

21. (currently amended) The method of claim 19, wherein the graphical user interface displays the updated preview of the code in real time after the step of the user altering of the setting.

22. (currently amended) The method of claim 19, further comprising: ~~the step of the user~~ receiving a cancellation of the alteration altering of the setting after viewing displaying the updated preview of the code.

23. (currently amended) A computer-readable storage medium for use with an electronic device having a processor, the medium storing holding instructions executable by the processor of the electronic device, the medium storing for performing a method, comprising the steps of:
one or more instructions for receiving a user request to define a property for a component of a graphical simulatable block diagram model;

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one or more instructions for generating a preview of code representative of the component of the block diagram ~~model~~ prior to generation of code for the ~~graphical block diagram~~ model; and

one or more instructions for displaying the preview of the code on a graphical user interface.

24. (currently amended) A computer-readable storage medium for use with an electronic device having a processor, the medium storing~~holding~~ instructions executable by the processor of the electronic device, the medium storing~~for performing a method, comprising the steps of:~~

one or more instructions for automatically updating a preview of code representative of a setting of a component of a ~~graphical~~ simulatable block diagram model in response to the ~~a~~ user altering the setting; and

one or more instructions for displaying the updated code on a graphical user interface.

25. (currently amended) A system for generating and displaying a graphical programming application, comprising:

user-operable input means for inputting data to the graphical programming application;

a display device for displaying a simulatable block diagram ~~graphical~~ model; and

an electronic device including memory for storing computer program instructions and data, and a processor for executing the stored computer program instructions, the computer program instructions including instructions for providing a code preview to a user on the display device, wherein the code preview displays code representative of a component of the block diagram model after the user defines a property of the component using the user-operable input means.

26. (original) The system of claim 25, wherein the input means comprises a graphical user interface displayed on the display device.

27. (original) The system of claim 26, wherein the graphical user interface includes a field for displaying the code preview.

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28. (currently amended) A system for generating and displaying a graphical programming application, comprising:

user-operable input means for inputting data to the graphical programming application;
a display device for displaying a simulatable block diagram graphical model; and
an electronic device including memory for storing computer program instructions and data, and a processor for executing the stored computer program instructions, the computer program instructions including instructions for automatically updating code representative of a setting for a component in the graphical block diagram model in response to the user altering the settings; and displaying the updated code.

29. (original) The system of claim 28, wherein the input means comprises a graphical user interface displayed on the display device.

30. (original) The system of claim 29, wherein the graphical user interface includes a field for displaying the updated code.